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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/790,098	03/02/2004	Mitsukane Nakashima	GOT-0022	1190
23353	7590 11/23/2005		EXAMINER	
RADER FISHMAN & GRAUER PLLC			KASTLER, SCOTT R	
LION BUILI 1233 20TH S	JING TREET N.W., SUITE 501		ART UNIT	PAPER NUMBER
	ON, DC 20036		1742	

DATE MAILED: 11/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/790,098	NAKASHIMA, MITSUKANE			
		Examiner	Art Unit			
		Scott Kastler	1742			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,						
 WHICHEVER IS LONGER, FR Extensions of time may be available unde after SIX (6) MONTHS from the mailing da If NO period for reply is specified above, the Failure to reply within the set or extended 	OM THE MAILING DA r the provisions of 37 CFR 1.13 ate of this communication. the maximum statutory period w period for reply will, by statute, three months after the mailing	ATE OF THIS COMMUNICATION ATE OF THIS COMMUNICATION, EVEN IF TIME OF THIS COMMUNICATION.	DN. imely filed m the mailing date of this communication. IED (35 U.S.C. § 133).			
Status						
1)⊠ Responsive to communication(s) filed on <u>18 October 2005</u> .						
2a) ☐ This action is FINAL .						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-7</u> is/are pendir	ng in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-7</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is object	ed to by the Examine	r.				
10)⊠ The drawing(s) filed on <u>02 March 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11) The oath or declaration is	objected to by the Ex	aminer. Note the attached Offic	e Action or form P1O-152.			
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made a)⊠ All b)⊡ Some * c)⊡		priority under 35 U.S.C. § 119(a)-(d) or (f).			
1. ☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No3. Copies of the certified copies of the priority documents have been received in this National Stage						
			ved in this National Stage			
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed	Office action for a list	of the certified doples not recon-				
Attachment(s)						
1) D Notice of References Cited (PTO-89)		4) Interview Summa				
Notice of Draftsperson's Patent Draw Information Disclosure Statement(s) Paper No(s)/Mail Date		Paper No(s)/Mail 5) Notice of Informal 6) Other:	Date Patent Application (PTO-152)			

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Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/30/2005 has been entered.

Double Patenting

Applicant is advised that should claim 1 be found allowable, claim 7 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k). Applicant has stated, in the arguments filed on 9/30/2005 for example, that claims 1 and 7 are identical in scope (see page 4, third paragraph of the arguments for example).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art of the instant disclosure in view of Yamaoka. The admitted prior art of the instant disclosure, in instant figures 5-7 for example, teaches a metal melting furnace (100) including a preheating flue (120) provided on it's upper portion with a material inlet opening, and on it's lower portion with an inclined hearth and a melting burner (125) oriented toward the lower portion of the flue and including a meltable material holder (150), a molten metal reservoir (135) provided with a temperature maintaining burner (136), and an inspection door (124), thereby showing all aspects of the above claims except a separation wall or the specifically recited component configurations (a cylindrical meltable material holder or specific separation wall configurations). Yamoka teaches that in melting furnaces including a preheating flue (7), inclined hearth (8) and molten material reservoir (9) it was known in the art at the time the invention was made to include a separation wall (6) including a melt passage (5) a slag blocking portion (21) and an exhaust gas opening (14) between the inclined hearth and the molten material reservoir (9) in order to provide a cleaner, higher quality melt by reducing or preventing the mixing of oxides and deposits into the melt (see col. 1 lines 39-45 for example). Because the instantly recited components in the prior art (the separation wall and meltable material holder (150)) operate in substantially the same manner with substantially the same results as the same components in the instant claims, it would have been a modification obvious to one of ordinary skill in the art at the time the invention was made to alter the configurations of these components to any other equally useful configuration, since it has been well settled that motivation to alter the shape or configuration of a component without materially altering the operation of that component would have been a modification obvious to one of ordinary skill in the art at the time

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the invention was made. See MPEP 2144.04 IV B, and *In re Dailey* 149 USPQ 47. Because the furnace system of the admitted prior art of the instant disclosure would also desire a cleaner melt, motivation to include a separation wall, as taught by Yamoka to provide a cleaner melt in furnaces of the type disclosed by the admitted prior art of the instant disclosure, where the wall and other components are of any equally useful configuration, would have been a modification obvious to one of ordinary skill in the art at the time the invention was made.

Response to Arguments

Applicant's arguments filed on 10/18/2005 and 9/30/2005 have been fully considered but they are not persuasive. Applicant's argument that the applied prior art does not teach a metal processing portion in the form of a chamber is not persuasive because the admitted prior art of the instant disclosure, as applied above, teaches such a chamber at (135) for example, where Yamoka teaches the desirability of including a separating wall (6) between the inclined hearth and the melt chamber.

Applicant's further argument that the applied prior art (Yamoka et al) does not specifically teach the instantly recited separation wall configuration (where the wall opening is above the melt chamber floor) is not persuasive because as stated in the above rejection, applicant has not yet presented in proper affidavit or declarative form, any showing(s) that the instantly recited separation wall configuration imparts any new or unexpected results when compared to the separation wall of Yamoka et al, which is stated to operate in substantially the same manner for substantially the same objectives as the instantly claimed separation wall (to

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provide a cleaner melt product). Applicant's arguments and conclusory statements alone, are insufficient to establish new or unexpected results. See In re Wood et al, 199 USPQ 137.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Kastler whose telephone number is (571) 272-1243. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Scott Kastler **Primary Examiner** Art Unit 1742